

Foundry Service & Supplies, Inc.

FUSED SILICA
HOT PRESS PLATENS
CASTABLE CERAMICS
FIRED SHAPES
AEROSPACE TOOLING

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HI-TEMP INSULATIONS
CALCIUM SILICATE BOARDS
MILLBOARD AND BLANKET
PAPERS AND CEMENTS
CUTTING AND FABRICATING

H-91

Product Description:

H-91 is an ultra-high temperature, asbestos-free, high density, fiber reinforced composite cement board with a substrate of high alumina cement. This, combined with selected fillers, gives H-91 unsurpassed strength at elevated temperatures up to to 1200°F (649°C). The material can be either sodium silicate dipped or silicone impregnated to minimize water absorption making the material suitable for electrical applications, especially in humid conditions.

Applications:

It's unusually high temperature capability and exceptional strength at temperature make H-91 ideal for applications above the 600-900°F threshold at which most other cement boards fail. Applications include induction furnace insulation, billet heater boxes, molten metal splash guards, and mold base boards. Extremely low thermal conductivity and high compressive strength make H-91 a cost-effective material for high temperature press insulation and hot glass handling parts such as take-outs, deadplates, sweepout pads, and stacker bar insulators. It's excellent machinability makes H-91 ideal for intricate high temperature electrical insulators and other precision machined components.

Services:

Foundry Service and Supplies is a full-service fabricator with an unmatched reputation for quick turn-around and competitive pricing. We can easily handle any job for fabricated parts or stock sheets, from high production quantities to prototypes. Our quality and reliability make Foundry Service the best choice for all of your high temperature material requirements.

Property*	Units	Value
Density	PCF	120
Compressive Strength	PSI	16675
Flexural Strength	PSI	4350
Shear Strength	PSI	3700
Thermal Conductivity @ 250°F	BTU-in./hr.-Ft. ² -°F	3.4
Volume Resistivity	Ohm/in. x 10E10	2.55
Arc Resistance	Seconds	>360
Water Absorption	% After 48 Hrs.	10
Max. Operating Temp.	°F	1200
Cont. Operating Temp.	°F	1000
Chemical Resistance		Fair
Machinability		Excellent
Max. Sheet Size (Thickness)	Inches	37 x 49 (x 3" Thick)

* The H-91 properties listed represent typical average values obtained in accordance with accepted test methods and are subject to normal manufacturing variations. They are supplied as a technical service and are subject to change without notice. Check with your supplier to assure current information